

ABSTRACT OF THE DISCLOSURE

A method for establishing a route over which data packets are to be sent from a source node to a destination node in an ad-hoc network is provided. A source having packets to send to a destination node employs a reactive routing protocol if it does not possess the route to the destination node. Initially, it may be determined whether or not the source node is a member of an existing piconet. If the source node is a member of an existing piconet, a ROUTE request message may be broadcast to the nodes of the existing piconet, while the source awaits a timely REPLY message. If the source node is not a member of an existing piconet, or if a time REPLY message is not received, the source node may initiate a new route discovery process wherein the nodes attempt to establish new piconets that enable more efficient communication between the source and destination nodes.